

IN THE CLAIMS

Claim 1-21 (Cancelled).

Claim 22 (Previously presented): A method comprising:

transmitting a first series of stimulus pulses comprising a quasitrapezoidal pulse train to a sacral ventral root of a patient with a first electrode; and

simultaneously transmitting a second series of stimulus pulses comprising an intermittent pulse train pattern of 1 second on/1 second off to a sacral dorsal root corresponding to the sacral ventral root of the patient with a second electrode,

thereby emptying the bladder.

Claim 23 (Amended): An apparatus for the control of bladder function in a patient by combined stimulation of ventral and dorsal sacral roots, comprising:

a first electrode adapted to be coupled [directly] to a sacral ventral root of a patient [and] further adapted to deliver a first series of stimulus pulses comprising a quasitrapezoidal pulse train;

a second electrode adapted to be coupled [directly] to a sacral dorsal root corresponding to said sacral ventral root and further adapted to deliver a second series of stimulus pulses comprising an intermittent pulse train pattern of 1 second on/1 second off;

and control means, electrically coupled to said first and second electrodes, for generating said first and second pulses simultaneously, sufficient to cause the bladder of the patient to contract, whereby emptying the bladder.

Claim 24 (New). The apparatus of claim 23, wherein the first electrode comprises a self-sizing cuff electrode.

Claim 25 (New) The apparatus of Claim 23, wherein the second electrode comprises a self-sizing cuff electrode.

Claim 26 (New). The apparatus of Claim 23, wherein the first electrode comprises a surface mounted electrode.

Claim 27 (New). The apparatus of Claim 23, wherein said second electrode comprises a surface mounted electrode.

Claim 28 (New). The apparatus of Claim 23, wherein said first series of stimulus pulses comprises a quasitrapezoidal pulse train at 20 Hz.

Claim 29 (New). The apparatus of Claim 23, wherein said second series of stimulus pulses have a nominal amplitude of 1 ma and a pulse duration of 20 to 100 μ secs.

Claim 30 (New). The apparatus of claim 23, wherein said first series of stimulus pulses have a nominal amplitude of 1 ma and a pulse duration of 350 to 500 μ secs.